## ISSUE SLIP STAPLE AREA (\* c additional cross references)

| POSITION                  | INITIALS   | ID NO. | DATE      |  |  |  |  |  |  |
|---------------------------|------------|--------|-----------|--|--|--|--|--|--|
| FEE DETERMINATION         |            |        |           |  |  |  |  |  |  |
| O.I.P.E. CLASSIFIER       | <u>.</u> . | 32.    | Wil       |  |  |  |  |  |  |
| FORMALITY REVIEW          | ( \ \      | 507    | 9 07-2501 |  |  |  |  |  |  |
| RESPONSE FORMALITY REVIEW | CK         | 1100   | 11-06.01  |  |  |  |  |  |  |

09/866800

## INDEX OF CLAIMS

| ✓ Rejected                                     | N Non-elected |
|--|---------------|
| = Allowed                                      | IInterference |
| <ul> <li>(Through numeral) Canceled</li> </ul> | A Appeal      |
| ÷ Restricted                                   | O Objected    |

|          |          |            |  |     |          |          | ÷            | •        |          | ••••         |          |                 | •••• | F        | iesi     | HCL | 60       | •           |          |                | U        | •••••     | ••••     | •••••               | •••••     | *****    | ••••   | Obje       | ÇLEU      |          |            |            |              |          |          |          |          |
|----------|----------|------------|--|-----|----------|----------|--------------|----------|----------|--------------|----------|-----------------|------|----------|----------|-----|----------|-------------|----------|----------------|----------|-----------|----------|---------------------|-----------|----------|--------|------------|-----------|----------|------------|------------|--------------|----------|----------|----------|----------|
| Ctalm    |          |            |  |     |          |          | Claim Date   |          |          |              |          |                 |      |          |          |     | [        | Cla         | m        |                |          | Date      |          |                     |           |          |        |            |           |          |            |            |              |          |          |          |          |
| Final    | Original |            | ************************************** |     | 03656    | 9/5/0    | 8/10/15      | 2/2/2    |          |              |          |                 |      | Final    | Original |     |          |             |          |                |          |           |          |                     |           |          | Final  | Original   |           |          |            |            |              |          |          |          |          |
|          | N        | ٤          | Ξ                                      | コ   | V        | 1        | V            | E        |          |              | П        |                 |      |          | 51       |     |          | $\sqsupset$ |          | $\Box$         |          |           | $\Box$   |                     | $\exists$ |          |        | 101        |           |          |            |            | Ш            |          |          |          |          |
| L        | ٤        |            | 1                                      | 4   | 7        | <<       | #            | X        | <u> </u> | _            | Н        | Н               |      |          | 52<br>53 | _   | Ц        | 4           | 4        | $\dashv$       | _        | Ц         | _        | $\dashv$            | 4         | - 1      |        | 102        | ╄-        | L        | _          |            | Ш            | Щ        | Ш        | L        | _        |
| $\vdash$ | П        |            | ⇉                                      |     | V        | v        | ╟            | -        | ▙        | -            | Н        | Ц               |      | $\vdash$ | 54       | _   | Щ        | 4           | $\dashv$ | $\dashv$       |          |           |          | $\dashv$            | $\dashv$  | ŀ        |        | 103        | $\vdash$  | L        | <u> </u>   | Ц          | Н            | Ш        | ш        | L        | ┡        |
| $\vdash$ |          | +          | 4                                      |     | Ť        | V        | ╫            | -        | ┢╌       | ⊢            | Н        | Н               |      | $\vdash$ | 55       | _   | Н        |             | $\dashv$ |                | $\dashv$ | $\exists$ | Н        | Н                   | $\dashv$  | H        |        | 105        | ╁         | ⊢        | ┢          | -          | -            | Н        | H        | -        | ╀        |
| $\vdash$ | +        | +          | 7                                      |     | Ť        | v        | ╫            |          | $\vdash$ | H            | Н        | Н               |      |          | 56       |     |          |             |          | $\dashv$       |          | -         | -        |                     | $\dashv$  | ŀ        |        | 106        | +         | ┢        |            | ┝          | $\vdash$     | Н        | $\vdash$ | H        | $\vdash$ |
| Г        | F        | 4.         | 7                                      |     | V        | V        | V            | Т        |          | Г            | П        | П               |      |          | 57       | _   |          |             |          |                |          |           |          | П                   | $\dashv$  | ı        |        | 107        | $\dagger$ | Т        | $\vdash$   | $\vdash$   |              | П        | М        |          | t        |
|          | J        |            |  | Ņ   |          | N        |              | oxdot    |          |              |          |                 |      |          | 58       |     |          |             |          |                |          |           |          |                     | $\Box$    |          |        | 108        | Τ         |          |            |            |              |          |          | Γ        | Г        |
| ī        | П        | Ŀ          | -                                      | N   |          | N        | L            |          |          |              |          |                 |      |          | 59       |     |          |             |          |                |          |           |          | П                   | $\Box$    |          |        | 109        | 匚         |          |            |            |              |          |          |          | $\Box$   |
| $\perp$  | 11       | #          | _                                      | 7   | _        | N        | L            | ↓_       | L        | L            | Ш        | Щ               |      | <u> </u> | 8        | _   | Ш        | Ц           | Ш        | Ш              |          |           |          | Ц                   | _         | Ļ        | _      | 110        | ╙         | <u> </u> | <u> </u>   | L          |              |          |          | L        | <u>!</u> |
| $\vdash$ | 41       | H          | 4                                      | N   |          | M        | <del> </del> | ╄        | ╄        | <del> </del> | Н        | Н               |      | -        | 61       | Ш   | _        | Ц           | Н        | Н              |          | Ш         |          | $\vdash \downarrow$ | _         | ļ        |        | 111        | ╀         | L        | <b>!</b> - | _          | <u> </u>     | ш        |          | L        | L        |
| $\vdash$ | -11      |            |  | -   | _        | 4        | ┞            | ╀        | ╀        | ⊢            | Н        | Н               |      | -        | 62<br>63 | _   | Н        | -4          | Н        | Н              | Н        |           | H        | $\vdash$            | $\dashv$  | ŀ        |        | 112        | ╀         | :        | ├          | ┝          | H            | Н        | Н        | ⊢        | ⊬        |
| $\vdash$ | H        |            | 4                                      | 222 | -        | N        | ╁            | ╁        | ╁        | +            | $\vdash$ | $\vdash \vdash$ |      | $\vdash$ | 64       | Н   | $\vdash$ | Н           | Н        | $\vdash$       | $\vdash$ | Н         | Н        | H                   | $\dashv$  | <b>-</b> | _      | 114        | ╫         | -        | -          | -1         | H            | H        | ⊢        | ⊢        | $\vdash$ |
| $\vdash$ | H        | ijĖ        | Ħ                                      | N   | -        | Ñ        | Н            | t        | ╁        | H            | Н        | H               |      | -        | 65       |     | H        |             | H        | Н              |          | H         | Н        | H                   | 一         | - 1      |        | 115        | +         | H        | 1          | $\vdash$   | <del>-</del> | Н        | $\vdash$ | $\vdash$ | +-       |
| $\vdash$ | Ħ        | t          | 4                                      | ×   |          | N        | T            | T        | 1        | ┢            |          | H               |      | $\vdash$ | 66       |     | Г        | _           |          | П              |          |           |          | Н                   | ╗         | ı        |        | 116        | 1         | Т        |            |            |              | П        | Н        | ┢        | H        |
|          | R        | E          |  | N   |          | H        |              |          |          |              |          |                 |      |          | 67       |     |          |             |          |                |          |           |          |                     |           |          | _      | 117        |           |          |            |            | П            |          |          |          | Г        |
|          | 11       | ١.         | -                                      | N   |          | N<br>N   |              |          | oxdot    |              |          |                 |      |          | 68       |     |          |             |          |                |          | Ш         |          |                     | ┚         |          |        | 118        |           |          |            |            |              |          |          |          |          |
| L        |          | E          |  | N   |          |          | L            | L.       | L        | L            |          |                 |      | L        | 69       |     |          |             |          | Ш              |          |           |          | Ш                   | ╝         | L        | _      | 119        | ┸         |          |            | L          |              |          |          | L        | L        |
| <u> </u> | 2        |            | 1                                      |     | V        | 1        | X            | V        | L        | L            | Ш        |                 |      | L        | 70       |     |          |             |          |                |          |           |          |                     | ╛         | L        |        | 120        |           | <u> </u> |            | L          |              |          |          | L        |          |
| L        | 2        | 1          | 1                                      |     | ٧        | ¥        | 11           | V        | 1_       | ᆫ            |          | Ш               |      |          | 71       |     |          |             |          | Ш              |          |           |          |                     |           |          |        | 121        | L         | L_       |            |            |              |          | Ц        | L        | L        |
| $\vdash$ | 13       | <u>e</u> t |  | _   | V.       | X        | U            | , _      | ╄        | 1            |          | Н               |      | $\vdash$ | 72       | _   | ┡        | Щ           | Ш        | Ш              |          | Ш         |          |                     | _         | L        |        | 122        | ļ         | L        | _          | <u> </u>   |              | Ш        | Ш        | _        | L        |
| -        | U        | 3 3        | Ы                                      |     | ٧        | ļ,       | V            | $\vdash$ | ╀        | ╀            | $\vdash$ | Н               |      | -        | 73<br>74 | -   |          |             | Н        | Н              | _        | H         | _        | ┝                   | $\dashv$  | -        |        | 123<br>124 | ╀         | H        | ⊢          | -          |              | Н        | Н        | ⊢        | ╀        |
| +        | 1        | Ę.         | =                                      | И   | $\vdash$ | Ž        | V            | ╫        | ╁        | ╌            | H        |                 |      | $\vdash$ | 75       |     | -        | _           | H        | Н              | -        |           | Н        | $\vdash$            | $\dashv$  | -        | _      | 125        | ╁         | -        | ├          | ┝          |              | Н        | Н        | ⊢        | ⊢        |
| T.       | J        | ğΤ         | 7                                      | _   | H        | V        | V            | ╁        | ╅        | $\vdash$     | ┢        | Н               |      | $\vdash$ | 76       |     |          |             |          | Н              | П        | -         |          | Н                   | ⊣         | -        |        | 126        | +         | -        | ┢╌         | -          |              | H        | H        | ┢        | ╁        |
| ۲        | 2        |            | ٦                                      |     |          | *        | Ť            |          | T        | 1            |          | Н               |      | $\vdash$ | 77       | Т   |          |             |          | П              |          |           |          | П                   | ┪         | Ī        | _      | 127        | 1         | 1        | 1          |            |              | П        | М        |          | H        |
|          | 2        |            |  |     |          |          |              | 7        |          |              |          |                 |      |          | 78       |     |          |             |          |                |          |           |          |                     | $\Box$    |          |        | 126        |           |          |            |            |              |          |          |          |          |
|          | 2        |            |  |     |          |          |              | L        |          | L            |          |                 |      |          | 79       |     |          |             |          |                |          |           |          | Ц                   |           |          |        | 129        |           |          |            |            | П            |          |          |          | Г        |
| $\perp$  | 3        |            | 4                                      |     | L        | L        | L            | 1        | <u> </u> |              | Ш        | Ш               |      | _        | 8        |     | L        |             | Ш        | Ш              | Ш        |           |          | Ц                   | 4         | Ļ        | _      | 130        | ╀         |          | <u> </u>   | _          | $oxed{\Box}$ |          | Ш        | L        | L        |
| $\vdash$ | 3        |            | 4                                      | _   | L        | ļ_       | ┞-           | ╄        | ╀        | ┞-           | H        | Н               |      | $\vdash$ | 81<br>82 |     | _        | $\vdash$    |          | Ш              |          | _         |          | Н                   | 4         | ŀ        |        | 131        | ╄         | L        | ⊢          | ļ.,        |              | Ш        | Ш        | _        | L        |
| $\vdash$ | 3        | _          | 4                                      | _   | -        | -        | ┝            | ╀        | ╀        | ╀            | $\vdash$ | Н               |      | $\vdash$ | 83       |     | -        | Н           | H        | Н              |          | _         | _        | Н                   | -         | -        | _      | 133        | ╀         | ┝        | -          | H          | H            | Н        | $\vdash$ | -        | ⊬        |
| $\vdash$ | 13       |            | +                                      | -   | $\vdash$ | $\vdash$ | $\vdash$     | 十        | 1        | ┢            | -        | Н               |      | -        | 84       | Н   | $\vdash$ | H           | H        | Н              | $\dashv$ | -         | -        | H                   | $\dashv$  | - }      |        | 134        | +         | ⊢        | -          | $\vdash$   | $\vdash$     | $\vdash$ | Н        | $\vdash$ | $\vdash$ |
| $\vdash$ | 3        | _          | ┪                                      |     | _        | Г        | T            | 1        | T        | $\vdash$     | Н        | Н               |      |          | 85       | -   | Т        |             | Н        |                | ٦        | Н         |          | H                   | $\dashv$  | ŀ        |        | 135        | 1         | Η        | Н          | Н          |              |          | $\vdash$ |          | H        |
|          | 3        | _          | j                                      |     |          |          | Γ            | T        | T        | Γ            | П        | Ħ               |      |          | 86       | _   |          | П           |          |                |          |           |          |                     | $\Box$    | ı        |        | 136        | Ī         | L        |            |            |              |          |          | Г        | Г        |
|          | 3        | _          |  |     |          |          |              |          |          |              |          |                 |      |          | 87       |     |          |             |          |                |          |           |          |                     |           |          | _      | 137        | L         |          |            |            |              |          |          |          |          |
|          | ]3       |            |  |     |          |          |              | $\Box$   |          |              |          |                 |      |          | 88       |     |          |             |          |                |          |           |          |                     |           |          |        | 38         | $\Box$    |          |            |            |              |          |          |          |          |
| Ŀ        | 3:       | 4-         | 4                                      | _   |          | L        | L            | L        | L        | L            |          | Ц               |      |          | 89       |     | Ц        | Ц           | Щ        | Ш              | Ц        | Щ         |          | Ц                   | $\sqcup$  | 1        | -      | 39         | ļ.        | L        | L          | lacksquare |              | Щ        | Ц        |          | L        |
| L        | 4        | _          | 4                                      |     | Ш        | _        | L            | L        | Ļ        | $\perp$      | Ц        | Ц               |      |          | 90       |     | Щ        | Ш           | Ш        | Ш              | Ш        | Ш         |          | Ц                   | $\dashv$  | 1        | _      | 40         | _         |          | _          | L          | Ц            | Ш        | Ц        | LJ       | L        |
| 1        | 4        |            | 4                                      |     |          | _        | L            | 1        | $\perp$  | $\perp$      | $\sqcup$ | Ш               |      | _        | 91       |     | Ц        | Ш           | Ц        | Ш              |          |           | Ц        | Ц                   | $\Box$    | L        | _      | 141        | 1         | _        | _          | L          | Ш            | Ш        | Ц        | $\sqcup$ | L        |
| F        | 4        |            | 4                                      | -   | _        | $\vdash$ | ┡            | ╄        | -        | -            | Н        | Н               |      | -        | 92       | _   | Щ        | Н           | Щ        | $\vdash$       |          | Щ         | $\dashv$ | $\sqcup$            | -         | j.       |        | 142        |           | L        | <u> </u>   | $\vdash$   | Щ            | $\vdash$ | Н        |          | <u> </u> |
| $\vdash$ | -        | -          | -                                      | -   | μ.       | $\vdash$ | ⊢            | ╀        | ⊢        | ╀            | $\vdash$ | Н               |      | -        | 93       |     | -        |             | Н        | $\vdash\vdash$ | $\vdash$ | Н         |          | $\vdash \vdash$     |           | ŀ        | _      | 143        | ┼         |          | L          | H          | Н            | $\vdash$ | Н        | -        | ⊢        |
| ŀ        | 4        |            | +                                      | -   |          | $\vdash$ | +            | ╀        | ╀        | $\vdash$     | $\vdash$ | Н               |      | -        | 94<br>95 | Н   | $\vdash$ | $\dashv$    | Н        | $\dashv$       | -        | $\vdash$  | Н        | $\vdash$            | $\dashv$  | ŀ        |        | 144        | ╁         | -        | -          | $\vdash$   | Н            | Н        | Н        | H        | -        |
| -        | 14       | _          | +                                      | -   |          | -        | ┢            | $\vdash$ | $\vdash$ | $\vdash$     |          | Н               |      |          | 86       | _   | Н        | $\dashv$    | Н        | $\dashv$       | $\dashv$ | $\vdash$  | Н        | $\vdash$            | $\dashv$  | -        | -      | 46         | ┪         | H        |            | -          | -            | $\vdash$ | $\vdash$ | H        | $\vdash$ |
| 十        | 4        | _          | 1                                      | _   | _        | Н        | t            | ٢        | T        | T            | Н        | Н               |      | $\vdash$ | 97       |     |          | Н           |          | П              | Н        | Н         | Н        | $\vdash$            | $\dashv$  | H        |        | 47         | T         | Н        | Ι-         | Н          | Н            | Н        | Н        | Н        | Г        |
|          | 4        |            | 1                                      |     |          |          |              | t        | T        |              |          | П               |      |          | 98       |     |          |             |          |                |          |           |          |                     | $\exists$ | ı        |        | 48         | 1         | Г        |            |            |              |          |          |          | Г        |
|          | 4        |            |  |     |          |          | L            | I        | L        | L            |          |                 |      |          | 99       |     |          |             |          |                |          |           |          |                     |           |          |        | 148        | I         |          |            |            |              |          |          |          | Γ        |
|          | 5        | 0          | J                                      |     |          | Ľ        | Γ            |          |          | $\Box$       |          | Ш               |      |          | 100      |     |          |             |          |                | ]        |           |          | П                   | _]        |          | $\Box$ | 150        |           |          |            | $\Box$     |              |          |          |          | Ľ        |

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